

(No Model.)

E. A. GOEPPER.
BURGLAR ALARM.

2 Sheets—Sheet 1.

No. 600,068.

Fig. 1.

Patented Mar. 1, 1898.

Fig. 2.

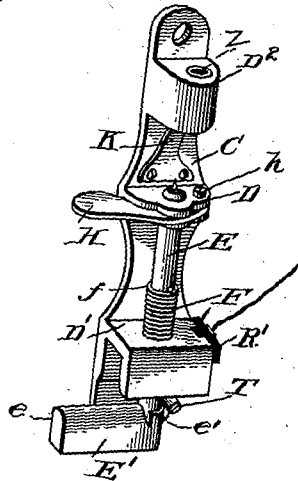
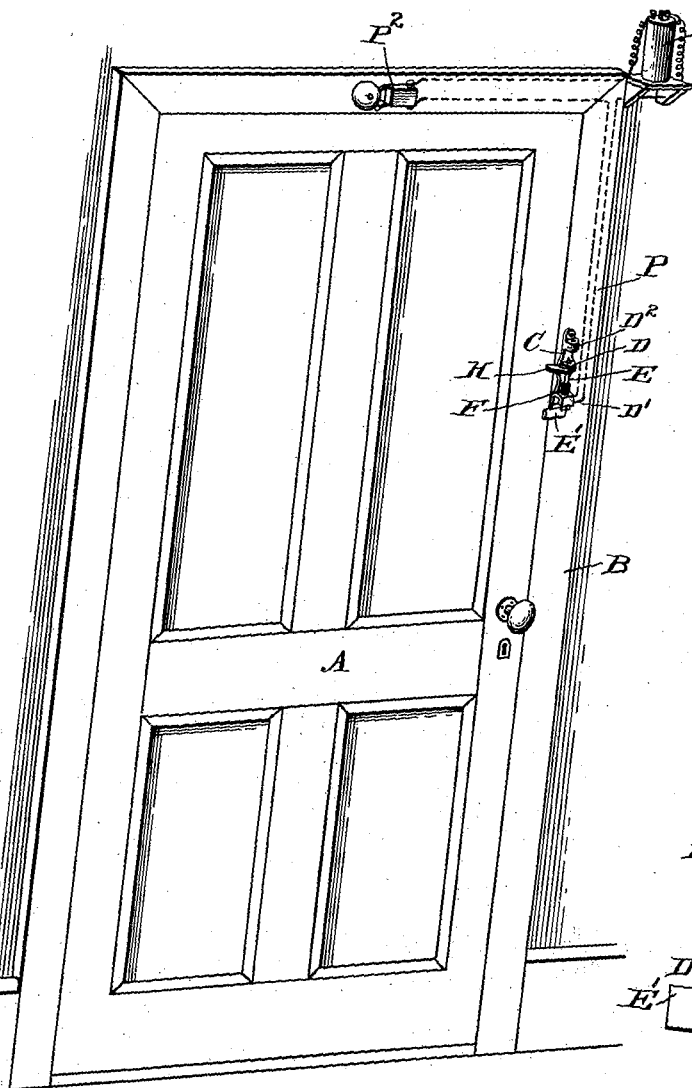


Fig. 3.

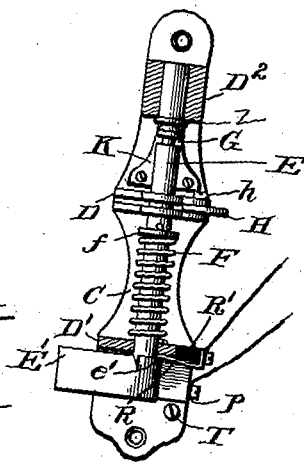
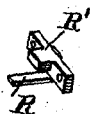


Fig. 6.



Fig. 7.



Witnesses.

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(No Model.)

2 Sheets—Sheet 2.

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BURGLAR ALARM.

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Fig. 4.

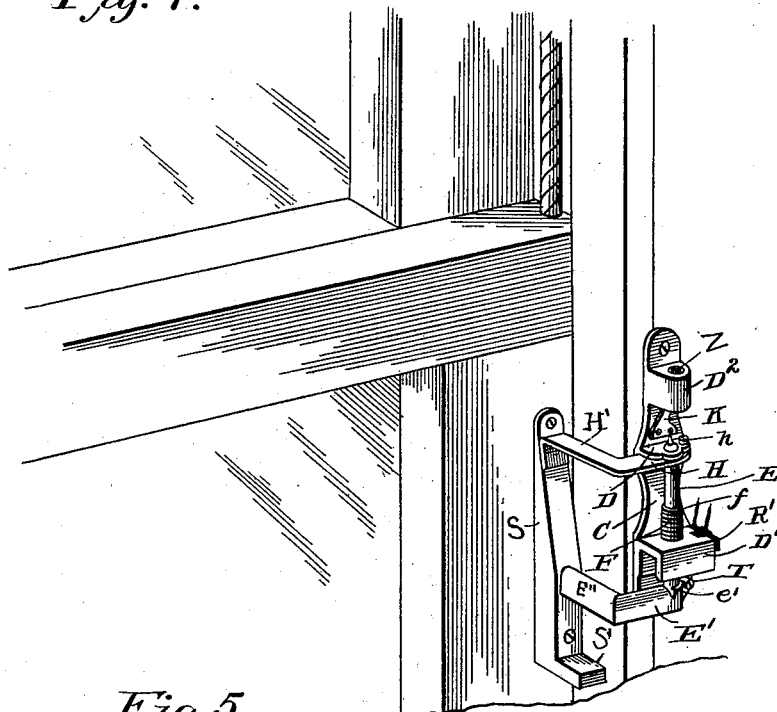


Fig. 5.

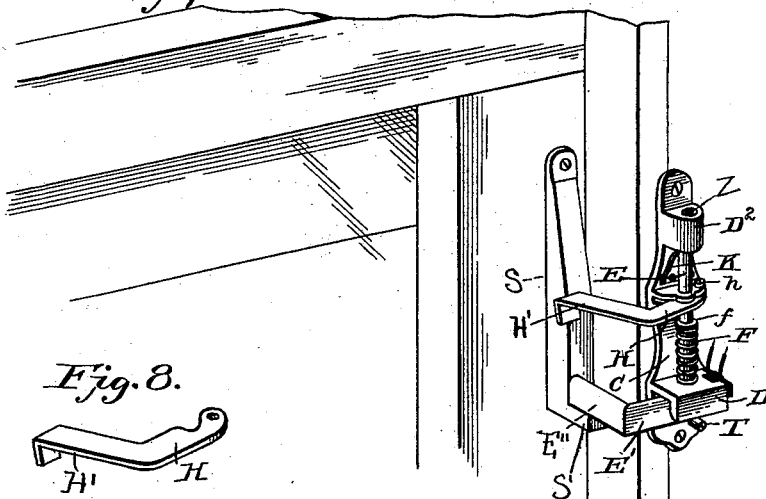
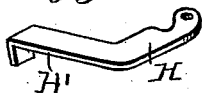


Fig. 8.



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UNITED STATES PATENT OFFICE.

EMIL A. GOEPPER, OF LOUISVILLE, KENTUCKY.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 600,068, dated March 1, 1898.

Application filed October 11, 1897. Serial No. 654,830. (No model.)

To all whom it may concern:

Be it known that I, EMIL A. GOEPPER, a citizen of the United States, and a resident of Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Burglar-Alarms; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a perspective view showing my invention applied to a door. Fig. 2 is a similar view of the alarm device detached and the bolt "set." Fig. 3 is a front view, partly in section, with the bolt sprung. Figs. 4 and 5 are perspective views showing the application of the device to windows, the bolt being shown as set in Fig. 4 and as sprung in Fig. 5; and Figs. 6, 7, and 8 are detail perspective views of parts of the device.

This invention is designed to provide a combination burglar-alarm and door-bolt adapted for use in connection with both doors and windows, and which is so constructed and arranged that when set any attempt to open the door or window to which it is applied will result in the sounding of an alarm and also in the setting of the bolt to lock such door or window from being opened.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, the letter A indicates a door to which I have shown the invention applied, and B is the frame or casing thereof. C designates a plate or bracket which is secured to the inside of the said frame or casing, adjacent to the free or non-hinged edge of the door, at a point preferably some two or three feet above the door-knob, so that it, with the devices carried thereby, will be out of the reach of children.

Mounted loosely in bearing-lugs D D' of the said plate is a reciprocating and rotary bolt E, which is formed at its lower end with a bent portion or head E', having a flat side *e*. Coiled around the said bolt, between a collar

f thereof and the upper face of the lug D', is a helical spring F, whose tension is such, when free to act, as to throw the bolt upwardly. In the upper end portion of the bolt is a groove or notch G, and pivoted in the lug D, which is slotted for the purpose, is a trigger-arm H, which is adapted to engage the said notch or groove and thereby lock the bolt in its down position and against movement by the said spring. The free end portion of this trigger-arm, when in this position, extends over the adjoining edge portion of the door, as shown in Fig. 1.

Connected to the plate C at the point *p* is one terminal of an electric circuit P, which includes a cell or battery P' and an alarm-bell P², or any other suitable alarm, such as a cartridge, which is arranged in the circuit to be exploded when the circuit is closed, or both the alarm-bell and cartridge may be employed. The other terminal of the circuit is connected to a spring-contact piece R, which is placed within the lug D', which is of the hollow form shown. This contact-piece is secured to an insulation-block R' and is arranged, when engaged by a shoulder *e'* of the bolt E, to be forced into engagement with the adjacent face of the said lug and thereby complete the circuit.

To set the alarm, the bolt E is drawn down until the trigger H can be engaged with the groove or notch G, which engagement is then made. The bolt is then turned to bring its flat side *e* against the face of the door, as shown in Fig. 1. If an attempt is made to open the door, the trigger H is at once thrown back out of engagement with the bolt, leaving the spring F free to act to immediately throw said bolt upwardly to bring its shoulder *e'* into engagement with the contact-piece R, which completes the circuit and sounds the alarm or alarms. At the same time the head of the bolt is brought up within the hollow lug D', and is thereby locked against rotation with its head or laterally-extending portion in such position as to prevent further opening of the door.

During the day, or whenever it is not desired to have the alarm set, the bolt is turned back and engaged with a pin T, carried by the plate or bracket C. The pivot *h* of the trigger H and also this pin T may be shifted

from one side of the plate to the other to adapt the device to either a right or left hand door.

The alarm device may be located in any desired portion of the house.

K designates a small spring-plate, which is secured to the plate C above the lug D and below an upper lug D², having therein a vertical opening. A cartridge Z, placed in the said opening, held therein by the engagement of the said spring K with the head thereof, will be exploded by the bolt when the latter is thrown.

The application of the device to a window will be readily understood from Figs. 4 and 5. The window-sash is provided with a wedge-piece S, and the trigger H and bolt-head E' are respectively provided with extensions H' and E'' for contact with the same. The raising of the sash causes the plate S to impinge against the trigger in such a manner as to release the bolt, which is then thrown in the manner which has been described. The extension E'' of the bolt-head engages a shoulder S' of the plate S and prevents further raising of the sash.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described combined burglar-alarm and lock, comprising a plate or support, a reciprocating and rotary bolt mounted upon said plate or support, and having a head portion which is adapted to be turned into contact with an adjacent window or door, a spring for throwing said bolt in one direction, a trigger device for engagement with said bolt to hold it against the action of the said spring and which is arranged to be released from such engagement by a slight opening movement of the said door or window, means

whereby said bolt is locked against rotation when thrown by said spring, means independent of the said trigger device for holding said bolt against upward movement when not in use, a normally open electrical circuit, including an alarm, and means whereby said circuit is closed when said bolt is thrown by its spring, substantially as specified.

2. In an alarm-and-lock device, the plate or support, the vertically-reciprocating and rotary bolt mounted thereon and having a bent portion or head at one end, a seat in said plate or support adapted to receive the said bent portion or head and thereby lock the bolt against rotation, a spring for throwing said bolt, a trigger device for holding the bolt against the action of said spring, a normally open electric circuit, including an alarm, and means whereby the bolt, when thrown by the said spring, closes the said circuit, substantially as specified.

3. In a burglar-alarm and lock, a plate or support, a reciprocating and rotary bolt mounted upon the plate or support, and having a head portion which is adapted to be turned into contact with a window or door, a spring for throwing said bolt in one direction, a trigger device for holding the bolt against the action of the said spring, and which is arranged to be released by a slight opening movement of the window or door, means whereby said bolt is locked against rotation when thrown by the spring, and a cartridge-holding device above the upper end of said bolt, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

E. A. GOEPFER.

Witnesses:

J. M. HUFFALTER,
JOS. H. TOBE.